

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-------------------------------------------------------|------------------|---------|------------------|
| L1 | 101 | 62/544 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:13 |
| L2 | 58 | 55/467.1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:13 |
| L3 | 107 | 62/606 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:13 |
| L4 | 48 | 62/538 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:13 |
| L5 | 46 | 62/537 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:14 |
| L6 | 287 | 55/447 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:14 |
| L7 | 297 | 62/5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:22 |
| L8 | 34 | 62/601 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:22 |
| L9 | 307 | 62/532 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:22 |

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| L10 | 2022 | ((vortex adj tube) Ranque Hilsch) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:25 |
| L11 | 1255 | ((vortex adj tube) Ranque Hilsch) (separat\$4 (natural adj gas)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:26 |
| L12 | 0 | ((vortex adj tube) Ranque Hilsch) (62/544 55/467.1 62/606 62/538 62/537 62/601 62/532) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:26 |
| L13 | 13 | ((vortex adj tube) Ranque Hilsch) (62/544 55/467.1 62/606 62/538 62/537 62/601 62/532 55/447) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:29 |
| L14 | 133 | ((vortex adj tube) Ranque Hilsch) (62/5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:27 |
| L15 | 24 | ((vortex adj tube) Ranque Hilsch) (62/5) (natural adj gas) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:27 |
| L16 | 2 | "6576029".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:30 |
| L17 | 25 | ("1836004" "2808897" "3014553" "3296774" "3498028" "3581467" "3605388" "3662521" "3788282" "3930816" "4128406" "4486203" "4838906" "4880451" "5145612" "5683629" "5714068").PN. OR ("6576029").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/06/29 09:30 |
| S1 | 5 | "2825423".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 12:18 |

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| S2 | 3 | "4026120".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/18 13:13 |
| S3 | 4 | "4208196".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/14 16:31 |
| S4 | 29 | 62/601 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/18 13:32 |
| S6 | 100 | 62/606 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/18 14:00 |
| S10 | 100 | 62/544 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/18 14:35 |
| S12 | 58 | 55/467.1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/18 13:26 |
| S13 | 16 | ("2522787" "2683972" "2807156" "3775988").PN. OR ("4026120").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/19 11:50 |
| S14 | 9 | ("2656896" "2711826" "3217469"). PN. OR ("4208196").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/19 12:11 |
| S15 | 16 | ((("1925491") or ("2528028") or ("2738026") or ("2747022")).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/12/19 12:19 |
| S16 | 48 | 62/538 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 12:21 |

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| S17 | 45 | 62/537 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 14:48 |
| S18 | 301 | 62/532 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 14:53 |
| S19 | 286 | 55/447 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 14:59 |
| S20 | 17 | ("2843265" "3235090" "3331193" "3501014" "4927298" "5071542" "5269949" "5273647").PN. OR ("5453196").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/19 15:09 |
| S21 | 293 | 62/5 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/19 15:40 |
| S22 | 30 | ((("2711826") or ("2747002") or ("2728406") or ("2738026") or ("2758665") or ("2809713") or ("2873814"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/12/20 10:46 |
| S23 | 58 | ((("3775988") or ("3691408") or ("3566620") or ("3546891") or ("3296807") or ("3118286") or ("3116344") or ("2971342") or ("2907174") or ("2893214") or ("2807156") or ("2741899") or ("2683972") or ("2581168") or ("2522787") or ("1952281"))).PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/12/20 10:47 |
| S24 | 9 | ("2698525" "2920457" "3287924" "4646524" "5976227" "6250086"). PN. OR ("6494935").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 13:45 |
| S25 | 2 | "3559373".pn. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 13:47 |
| S26 | 2 | "0496128".fref. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 13:47 |

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| S27 | 17 | ("3185181" "3544170" "3559373" "3616596" "3626665" "3725271" "3892070" "3894851" "4292050" "4541845" "5261242" "5682759"). PN. OR ("6513345").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 13:48 |
| S28 | 26 | ("1917643" "3442093" "3528216" "3528217" "3559373" "3670479" "3902876" "3961923" "4008059" "4531371" "4699114" "4985058" "5183481" "5305610" "5306330" "5498273" "5976227" "6056798"). PN. OR ("6372019").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 13:53 |
| S29 | 36 | ("2393112" "2676667" "2816490" "2857979" "3031825" "3182674" "3509932" "3523568" "3546891" "3618303" "3710554" "3957470" "3972698" "4218314" "4290791" "4401444").PN. OR ("4504285").URPN. | US-PGPUB; USPAT; USOCR | AND | ON | 2006/12/20 14:13 |
| S30 | 678 | hydroclone | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/20 14:57 |
| S31 | 3155686 | separate | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/20 14:57 |
| S32 | 539 | S31 S30 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/20 14:58 |
| S33 | 63908 | vortex Ranque Hilsch | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/06/29 09:23 |
| S34 | 63 | S32 S33 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/20 14:59 |
| S35 | 27 | parallel near3 vortex near tube | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/21 09:41 |

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| S36 | 302805 | ultrasonic | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/21 14:06 |
| S37 | 2503 | vortex near tube | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/21 14:06 |
| S38 | 84 | S36 S37 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/21 14:07 |
| S39 | 2503 | vortex near tube | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/22 08:35 |
| S40 | 420 | tangential S39 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/22 08:35 |
| S41 | 3158026 | separate | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/22 09:28 |
| S42 | 273 | S41 S40 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2006/12/22 09:28 |